

PATENT COOPERATION TREA

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference RACT50203	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2004/007263	International filing date (day/month/year) 08/03/2004	(Earliest) Priority Date (day/month/year) 04/09/2003
Applicant MCDANIEL, C. Steven		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C09D5/16 A01N63/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C09D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE WPI Section Ch, Week 199343 Derwent Publications Ltd., London, GB; Class A82, AN 1993-339917 XP002303824 & JP 05 247378 A (KOBAYASHI T) 24 September 1993 (1993-09-24)</p> <p>abstract</p> <p>----- -/--</p>	<p>1-4,6-9, 12,15, 16,20, 27, 29-62, 66, 105-107, 111-131, 135-146, 148,149, 155, 167-172, 265-291, 304-308</p>



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

4 November 2004

Date of mailing of the international search report

16/11/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE WPI Section Ch, Week 199008 Derwent Publications Ltd., London, GB; Class A82, AN 1990-052031 XP002303825 & CN 1 031 387 A (QINGDAO UNIV) 1 March 1989 (1989-03-01) abstract</p>	<p>1,6,7,9, 12,15, 16, 265-275</p>
X	<p>DD 203 926 A (MUELLER LOTHAR; REINHARDT BERND; SCHUSTER EUGEN; TEPPKE MANFRED) 9 November 1983 (1983-11-09)</p> <p>the whole document</p>	<p>1-3,6,7, 9,12, 29-39, 62-65, 105-107, 109, 113-115, 125-130, 140,144, 157, 168-171, 192-197, 265,266, 270,271, 304-308</p>
X	<p>DATABASE WPI Section Ch, Week 199149 Derwent Publications Ltd., London, GB; Class C03, AN 1991-357938 XP002303826 & JP 03 239766 A (IWATA KAGAKU KOGYO KK) 25 October 1991 (1991-10-25)</p> <p>abstract</p>	<p>1-9, 12-19, 27-62, 80-95, 105-118, 125,168, 170, 192-197, 211-214, 219, 228-230, 235-237, 265-291, 304-308</p>
X	<p>DATABASE WPI Section Ch, Week 198401 Derwent Publications Ltd., London, GB; Class A21, AN 1984-002984 XP002303827 & JP 58 198580 A (MITSUBISHI GAS CHEM CO INC) 18 November 1983 (1983-11-18) abstract</p>	<p>301</p>
P,X	<p>WO 03/093462 A (MATTEY MICHAEL ; SCOTT HUGH (GB); UNIV STRATHCLYDE (GB)) 13 November 2003 (2003-11-13) page 9, lines 31-35; claims 2,16</p>	<p>1,2,6,7, 9,22,23</p>

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 5247378	A	24-09-1993	JP 3175964 B2	11-06-2001
CN 1031387	A	01-03-1989	NONE	
DD 203926	A	09-11-1983	DD 203926 A1	09-11-1983
JP 3239766	A	25-10-1991	NONE	
JP 58198580	A	18-11-1983	JP 1338560 C	29-09-1986
			JP 61003832 B	04-02-1986
WO 03093462	A	13-11-2003	WO 03093462 A2	13-11-2003